PROTECTING THE ORCHARD

OIL HEATERS PROVED SUCCESS-FUL IN MISSOURI.

By W. L. Howard, Professor of Hortl- | air was made as much as eight desulture, University of Missouri.

The problem of protection from frost is as old as fruit growing. In Italy and France cloth screens have been extensively used to protect both dinary conditions could be raised ma vines and trees from frosts. Twelve to fifteen years ago, screens made of laths were an inch and a half apart, they confined a layer of warm air underneath and gave some protection. A successful method used in California was the spraying of a mist into the air from poles fifty feet high. On the protected by turning water into the ir-

rigation ditches at night. Dense smokes, or "smudges," have long been used in European countries. The smudge prevents radiation of the heat from the earth, and may add considerable moisture to the air. Such smudges are made by burning a mixture of damp straw and stable manure, sacks of manure alone, bales of wet straw or excelsior, the prunings of trees and vines, etc. Smudges of this kind all put moisture into the air. which, though invisible, helps to prevent radiation.

Coal burners have been used suc cessfully in California, where 20 to 50 burners were used per acre. These burners marked the first practical orchard heating. Growers found that to equip an acre with the necessary heaters would cost only about \$5.00, and the fuel would cost not more than \$2.50 to \$3.00 a night for the two or three nights that would require heat. Fuel oil has replaced the coal in many places, although some growers still prefer the coal.

The first historic work with heaters is famous throughout the country. For five nights the orchardists in Colorado battled against the frost in the spring of 1909, and the entire fruit crop was saved. At this time both the coal and the oil heaters were used. These burners do create a considerable amount of smoke, and are often spoken of as smudge pots, but their chief value lies in the heat they give off.

The oil pots in common use hold from one to five gallons. A gallon of oil will burn for about four hours. A coal burner holding one-fourth bushel will last about three hours.

The devices for burning coal are really stoves of the simplest design. They are often made with an oil basin at the bottom which is first lighted, and by the time it has burned out the coal will be started.

The oil pots are of different makes, but all are essentially alike. They are made of stovepipe iron, and are either fitted with three legs to stand on or a rim at the bottom. Each claims some point of especial merit. One, for example, has a tube running through the middle like an old-fashioned cake pan, which is for the purpose of carrying air to the middle of the flame. Oil pots, holding a gallon of oil, cost about \$15.00 per hundred, f. o. b. By the thousand they would come cheaper. Experiments in Smudging and Heating

smudging was tried on several occasions. Smoke was generated by burning tar, barnyard manure and other refuse. As a rule, it was impossible to get the smoke to hang over the orchard for a sufficient length of time to have any appreciable effect in preventing the escape of heat radiated from the earth. Fires were built on the windward side of the orchard when there was any movement of the air, and when it was quiet the fires were started on all sides, as the area under experiment was small, consisting of only an acre or two. At other times movable fires were made by piling earth in a wagon and building upon the mass a fire of smouldering material. By moving from place to place, the smoke was distributed where it seemed to be most needed.

Three years ago a test was made of the value of refined oil (kerosene) as a means of creating a smudge, and for generating heat to warm the orchard. Porous bricks were soaked in the oll and when stood on end and lighted, would burn for almost an hour. Not enough smoke was formed 'o be of any practical value as a smudge, and the flames produced by the burning bricks were too small to exercise much influence on the temperature. However, by using the burning bricks at the rate of about one hundred to the acre, there was a rise in the temperature of one or two degrees, but only for a short time. It was found impossible to keep a sufficient number of bricks burning lively at the same time and continued long enough. This experiment was tried in the apple orchard, and our best offorts could not prevent the frost.

On the next night when there was a still heavier frost, an attempt was made to protect a peach orchard. On this occasion coal tar was used to supplement the kerosene. Smoke was made with tar and excelsior and other combinations. The best method found was to set tin cans full of tar on the burning bricks, so that the tar was soon ignited. The peaches were at their tenderest stage, and where the fires were well placed they were saved.

All the precautions of soil management and saving the fertility of the soil are of little avail unless good seed is used. The stronger the seed the bigger the crop. In winter is the time to be getting the seed ready. Many noxious weed seeds are scattered ev ery season with supposedly pure grass seed. It is worth while to be careful.

To the up to date and progressive dairyman and to the most advanced sattle feeders, the ase of the sile and feeding of ensilage is recognized necessary to the greatest n their respective lines of

The first work done with a patent orchard heater was with the Troutman oil pots. Where seventy of these were used to the acre in the apple orchard. the temperature was raised as much as three and a balf degrees, but where 100 to the zere were employed, the grees warmer than other parts of the chard where there were no hesters. This experiment showed that the pots were of practical value, and that the temperature in an orchard under or-

terially. In a large area the effects will be easier to obtain than when only a small space is to be heated. Under Missouri conditions it will be necessary to use, on the average, half a gallon per pot per night, or about 50 gallons per acre. When the danger point does not come till late at night, same principle, orchards have been as is usually the case in Missouri, this will be sufficient. Sometimes, however, when severe freezes occur late in the spring, it will be necessary

to light the fires as carry as 11 o'clock in the evening, when it will require a gallon of oil to burn throughout the night. Two or three nights a season is all that is usually required for protection. The pots should last five years. The total cost of the pots and oil for the first season would amount to about \$20.00 per acre. The following years the cost would be very light compared to the value of the crop.

It is very necessary that the grower know when to light the fires, as otherwise there will be waste of fuel. I have known of some instances where the growers used all their fuel as brush and smudge material before the danger point really came, and the heat and smoke were lost.

In Missouri there would be few seasons indeed when raising the temperature five degrees would not save the crop. Of course the higher the ground is where the orchard stands, the less the danger from frosts and the fewer number of degrees required to protect it. For example there have been many times in south Missouri when raising the temperature two degrees would have protected the fruit, yet on adjoining land a hundred feet lower perhaps five or six degrees would have been required.

PREPARE THE PLANT SEED

IMPORTANT TO TREAT SEED OATS FOR SMUT.

Formaldehyde is Recommended by Missouri College.

During the "closed season" on the farm, when outdoor work is not being pushed very hard, is the time to get the seed ready for spring planting. Experiments at the Missouri College of Agriculture have shown that a very important factor in producing an oat crop that is worth while is the treating of the seed for smut. The presence of the smut not only injures the kernels by filling them with the black dust, but it also decreases the yield of grain.

The treatment recommended by the College of Agriculture is with formaldehyde. One pound of commercial formalin mixed with forty gallons of water is the right strength. The oats For many years the Experiment Sta- should be sprinkled with this until tion at the University of Missouri has they are thoroughly moist, and then been testing devices for protecting should be covered with sacks or blanfruit trees from the late spring frosts. kets and left to stand for several Beginning ten or twelve years ago, hours. Then they may be spread out as a tailor. In spite of his physical anywhere so that they may dry out. great activity and energy.-Leslie's. When they are dry they will keep as long as necessary, till seeding.

The treated seed is somewhat polsoned, and should not be fed to stock. Other solutions, such as bluestone, have been used with success, but formalin gives satisfactory results and is convenient to handle.

A large proportion of infant deaths are caused by diseases which have their foundation in impure milk. The richness of milk is often questioned. The watering of milk is illegal and immoral. But of far greater importance to the health of the consumer is the question of dirt in the milk. A small amount of dirt falling into the milk from the cow's udder may make a great difference, eventually, in the public health.

It is quite safe to say that a dairyman with ten average cows yielding gve thousands pounds of milk each annually would, by the deep setting cold water system, lose at least 300 pounds of butter fat yearly, which would amount to about \$90. From this one saving alone it can easily be figured that a cream separator will pay for itself every year in the saving of butter fat from the milk of ten COWB.

Many of the insect pests of summer live over winter in the litter and rub-Along fence rows there are great numbers of them lying in wait. During winter when other work is quiet is a good time to clean out these places and destroy the next year's bug crop.

The biggest cow is not always the best animal in the dairy by a long shot. Good quality may be contained in a small cow and some breeders assert that it is more frequently in the medium or even undersized animal than in the larger opes.

Modern Pharmacy. "We have a very fine course in pharmacy," says the president of the college to the father of a student who

"I'm glad to hear that. My boy expeots to become a druggist." "Well, we give special lectures on soap, stamps, cigars, perfumery, soda water, candy, city directories, tele-

phone books and stationery."-Life. Heimweh.

In the lone loch, up on the hill, Where only curiews wail their cry, Where all is silent, all is still, And where the sunsets come to die; white bird dipped its weary wings, Then o'er the hills it took its way. Homesick for waves and wild sea things.

I envied it the livelong day, -Pall Mall Cazett.

ONE CAN'T TICKLE HIMSELF

le is in the Unexpected That the Essence of This Sensation and of Laughter Lies.

Are you ticklish? Most people are But could you tickle yourself? Not with the tips of your fingers in the ordinary way, for then you would un consciously realize beforehand what was going to happen-there would be, as it were, a "complete circuit," and your mind would anticipate the sensa tion. But use a feather and in all probability you could tickle yourself

enough to produce a flickering smile The explanation is, according to London Answers, that although you may have been tickled with a feather many a time, yet you can never be certain about the exact feeling, and it is in the unexpected that laughter lies. Try it on the sole of your foot

Laughter is physical rather than mental, for although it is the mind which sees the humor of things, it is the body which does the actual laugh ing. Moreover, you cannot think and laugh at the same time. When you laugh your brain has perforce to rest. and the louder and heartier the laugh

the greater the rest. That is why laughter is fattening. because when the brain is having a good rest the blood which it would otherwise be utilizing is being used for digestive work. At the same time, too, a hearty laugh brings copious drafts of air into the lungs, and the diaphragm-that muscular partition between the lungs and the stomachis flattened out and digestion is pro-

moted. Scientists have found that bables most certainly smile from a month old, and begin to laugh outright a few weeks later, but as they could hardly have acquired a sense of humor by then, their laughter is regarded as the expression of some physical sensation. The subject of the tones of laughter has also received scientific attention, and a German professor has recently explained that man laughs to A or O and woman to E or L

Where Air Costs.

An enterprising mechanic of Callfornia has invented a unique device in the shape of a nickel-in-the-slot machine which supply bicycle and motor cycle owners with compressed air to inflate tires quickly and at a moderate cost. The crank or lever attachment is so much more easily worked than the ordinary pump that it is meeting with general favor.

The machines are placed on telephone poles along the thorougfares mostly frequented by cycle riders, and they are netting their owner a handsome income and providing a great convenience to the people who have use for compressed air. The reservoirs are built of iron and are not larger than good sized mail boxes. Harper's Weekly.

London's Oldest Preacher.

One of London's remarkable men is the Rev. Robert Brandon, described as Baptist minister, tailor, poet and author, who lately celebrated his ninety-fifth birthday, and who is the oldest officiating preacher in London. He preaches about once a month at a place in Chelsea, where he has ministered for 64 years. He has to be carried to his church in a bath chair, for he has been a cripple since he was two years old, when one of his legs became paralyzed. He practically educated himself, earning tuition money on a smooth floor, in a wagon bed, or disability he has always manifested

Plan Thought Out by a Mother.

In the Woman's Home Companion there is what is called "The Exchange." It is a department of practical household news sent in by readers from various parts of the country. Following is a suggestion sent by a mother in Michigan: "I buy the sweaters for my children the same color, and when the sleeves have given out, as they always do long before the body of the garment, I make new sleeves of the whole part of one sweater for the other one."

Justin McCarthy in Old Age. Justin McCarthy, politician, author and journalist, celebrated his eightyfirst birthday recently at Folkstone. Kent, England. He is convalencing from a sharp attack of illness, but his brain is as keen as ever. Eight years ago a civil list pension was bestowed upon him by Mr. Balfour.

Think Only of the Blessings. "Ever reflect on your present blessings, of which every man has manynot on your past misfortunes, of which all men have some."-Dickens

THE MARKETS

LIVE STOCK.

EAST ST. LOUIS. H.L.—Cattle—Nature beef steers. \$4.50\(\phi 6.50\); cows and helfers. \$3.00\(\phi 6.50\); stockers and feeders. \$3.25\(\pi 6.50\); stockers and feeders. \$3.25\(\pi 6.50\); stockers and feeders. \$3.25\(\pi 6.50\); cows and helfers. \$2.00\(5.00\); colves in carload lots. \$5.00\(\pi 6.30\); pigs. \$4.00\(\pi 5.50\); Bik. \$6.10\(\pi 6.30\); pigs. \$4.00\(\pi 5.50\); Bik. \$6.10\(\pi 6.30\); pigs. \$4.00\(\pi 5.50\); Bimbs. \$5.50\(\pi 6.90\). CHICAGO—Hogs—Mixed and butchers, \$5.00\(\pi 6.90\); good heavy. \$5.90\(\pi 6.22\) 1ghts. \$5.50\(\pi 6.50\); cough heavy. \$5.90\(\pi 6.50\); lights. \$5.55\(\pi 6.10\); cough heavy. \$5.90\(\pi 6.50\); lights. \$5.55\(\pi 6.10\); cows and heifers. \$2.10\(\pi 2.65\); stockers and feeders. \$3.50\(\pi 6.90\); Texans, \$4.40\(\pi 5.75\); calves. \$5.50\(\pi 6.80\). Sheep—Native. \$3.15\(\pi 4.70\); western. \$3.50\(\pi 4.70\); lambs. \$4.40\(\pi 6.80\); western. \$3.50\(\pi 6.80\).

Bambs, \$4.40@6.80; western, \$4.60@6.80.

GRAIN.

ST. LOUIS.—Wheat—No. 2 red. 99@100; No. 3 red. 97½@88½; No. 4 red. 95@6. No. 2 hard. 101@118½; No. 3 hard. 99@110; No. 4 hard. 93@8. Corn—No. 2.64½@65½; No. 4.63@64½; no grade. 55@60; No. 3 yellow. 65@66. No. 3 white. 65½. 67. Oats—No. 2.51@52; No. 3. 50; No. 4.69; No. 2 white. 55½. Sol. 2.50½. No. 3. white. 50½@51½; Standard. 51½; No. 3 white. 50½@51½; No. 4.69; No. 3 shite. 50½@51½; No. 2 red. 98@99½; No. 3 red. 96@97; No. 2 hard. 100@105; No. 3 hard. 99@101; No. 1 northern. 110@11; No. 2 northern. 108@109. Corn—No. 2.64@64½; No. 3 cla@651½; No. 3 yellow. 64@64½; No. 3 shite. 50½; No. 3 shite. 50½. No. 3. 30½; No. 4.50; No. 2 white. 51½; standard. 51½ \$51½; No. 3 white. 51½; Standard. 51½; \$1½; No. 3 white. 51½; Standard. 51½; \$1½; No. 3 white. 51½; Standard. 51½; \$1½; No. 3 white. 41½. \$50½. No. 3 white. 51½; Standard. 51½; \$1½; No. 3 white. 51½; Standard. 51½; \$1½; No. 3 white. 51½; \$100. 3 white. 51½; Standard. 51½; \$1½; No. 3 white. 51½; \$100. 3 white. 51½; \$100. 4 white. 49½@50½; No. 3 white. 51@51½; No. 4 white. 49½@50½; No. 2 white. 51@51½; No. 2 white. 5

NEW YORK—Butter—Creamery extra.
17c; state dairy, 246374c; imitation sreamery first. 26627c. Eggs—Nearby white fancy, 40c; nearby mixed fancy, 13638c; fresh firsts. 324637. Dressed solutiny—Turkeys. 12621c; chickens. 1924c; fowls, 16917c; ducks. 12625c. Live poultry—Geess, 114615c; ducks, 17615c;

IOWA WOMAN WELL AGAIN

Freed From Shooting Pains, Spinal Weakness, Dizziness, by Lydia E. Pinkham's Vegetable Compound.



Ottumwa, Iowa. — "For years I was almost a constant sufferer from female trouble in all its shooting pains all over my body, sick headache, spinal veakness, dizziness, depression, and everything that was horrid. I tried many doctors in different parts of the United States, but Lydia E. Pinkham's Vegeta-

Street, Ottumwa, Iowa. Consider Well This Advice.

til she has given Lydia E. Pinkham's Vegetable Compound a fair trial.

This famous remedy, the medicinal ingredients of which are derived from native roots and herbs, has for nearly forty years proved to be a most valuable tonic and invigorator of the female organism. Women everywhere bear willing testimony to the wonderful virtue of Lydia E. Pinkham's Vegetable Compound.

If you want special advice write to Lydia E. Pinkham Medicine Co. (confidential) Lynn, Mass. Your letter will be opened, read and answered by a woman and held in strict confidence.

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will clean them off permanently, and you work the horse same time. Does not hilator or remove the bair, E.00 per bottle, delivered. Book & F. free.
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Pettits tye Salve TIRED EYES

HOW HE KNEW.



Hubby-That milliner of yours must be a bird. Wifey-Nonsense! She has neither

wings nor feathers. Hubby-Yes; but just look at this

DISFIGURED WITH CRUSTS

"Some time ago I was taken with eczema from the top of my head to my waist. It began with scales on my body. I suffered untold itching and burning, and could not sleep. I was greatly disfigured with scales and crusts. My ears looked as if they had been most cut off with a razor, and my neck was perfectly raw. I suffered untold agony and pain. I tried two doctors who said I had eczema in its fullest stage, and that it could not be cured. I then tried other remedies to no avail. At last, I tried a set of the genuine Cuticura Remedi ... which cured me of eczema when a'l else had failed, therefore I cannot praise them too highly.

"I suffered with eczema about ten months, but am now entirely cured, and I believe Cuticura Remedies are the best skin cure there is." (Signed) Miss Mattle J. Shaffer, R. F. D. 1, Box

8, Dancy, Miss., Oct. 27, 1910. "I had suffered from eczema about four years when bolls began to break out on different parts of my body. It started with a fine red rash. My back was affected first, when it also spread over my face. The itching was almost unbearable at times. I tried different soaps and salves, but nothing seemed to help me until I began to use the Cuticura Soap and Ointment. One box of them cured me entirely. I recommended them to my sister for her baby who was troubled with tooth eczema, and they completely cured her (Signed) Mrs. F. L. Marber-

ger, Drehersville, Pa., Sept. 6, 1910. Although Cutleura Soap and Ointment are sold everywhere, a sample of each, with 32-page book, will be mailed free on application to "Cut- kicker. cura,," Dept. L. Boston.

"My new hat is pretty big." *I thought so, too, but when I got the bill for it it made your hat look

TREATED WAY DOWN IN TENNESSEE

Resinct the Secret-Sold Everywhere.

There seems to be no end to the There seems to be no end to the an old song. "If I had but ten millions uses to which Resinol is put. Here is a year, Gaffer Green, if I had but ten a man who first used it for piles, then | millions a year-" local troubles, and lastly for perspiring feet. All experiments have proven successful. Read what he says:

"I began the use of Resinol Oint- quiet. ment about ten years ago for piles; results satisfactory; finally used it off with unexpected earnestness. "I'd Splendid Crops dreadful forms; for all local troubles, and lastly for establish a system of free laundries perspiring feet, and it was more than for the poor. New Yorkers are wonsatisfactory, and that after I had spent over a hundred dollars for different remedies and medical fees without re- without realizing that more laundry sults. Since then have recommended it to dozens of people, and it has never mense benefit in some directions." falled to cure.

"D. L. KILLIAN, "Memphis, Tenn."

Not only is Resinol Ointment good ble Compound has done more for me than for piles, but it is unsurpassed in reail the doctors. I feel it my duty to tell lieving scalds and burns, chilbiains, to scrape up you these facts. My heart is full of cracked lips, itching, blackheads, boils, gratitude to Lydia E. Pinkham's Vege- or any form of cruptive skin disease, table Compound for my health."-Mrs. as eczema, tetter, ringworm, barber's HARRIET E. WAMPLER, 524 S. Ransom itch, etc. Resinol Ointment can be purchased from your druggist in fiftycent and one-dollar sizes, but if you No woman suffering from any form prefer to try a free sample, write to of female troubles should lose hope un- Department 93, Resinol Chemical Co., Department 93, Resinol Chemical Co., goin' to be in? Baltimore, Md.

MEAN TRICK PLAYED BY FATE

Chances Are That Statesman Had a Hard Time Explaining Matters to His Wife.

The story is that it happened about like this:

A representative from Indiana came on to Washington when congress started up, and engaged comfortable living quarters before his wife arrived. She reached there some time later on a Saturday night. The next morning she said:

"Now, Ralph, we'll go to church, of course. Which church have you been attending?"

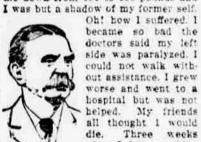
"Wher-uh, which one, you say?" repeated the congressman. "Why. there's a mighty nice little church down here just a couple of blocks. It's such an easy walk that I've been going there rather than to some of the more fashionable churches." "All right, if you feel at home there,

that's where we'll go," said the congressman's wife. "We haven't much time anyhow" So they put on their things and went

o the little church down the street. When they got inside they made a startling discovery. They were the only white people in

the church.-Philadelphia Ledger. LOST 61 POUNDS.

Another Terrible Case of Gravel Cured By Doan's Kidney Pills. Chas. Understein, 50 W. 44th St., Chicago, Ill. says: "Kidney trouble ran me down from 196 to 136 pounds and



all thought 1 would die. Three weeks after I began taking Doan's Kidney Pills, I passed a gravel stone as large as a pea. The stones continued to pass at intervals. I passed eleven in one day. Doan's Kidney Pills finally cured me and I have had no kidney trouble

"When Your Back is Lame, Remember the Name-DOAN'S." 50c, all stores. Foster-Milburn Co., Buffalo, N. Y.

since.

A girl may not really object to being kissed, but she objects to the young man's thinking that she doesn't

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Try Murine Eye Remedy. No Smarting—Feela Fine—Acts Quickly. Try it for Red, Weak, Watery Eyes and Granulated Eyelids. Ulustrated Book in each Package. Murine is compounded by our Oculists—not a "Patent Medicine"—but used in suggested Physicians' Practice for many years. How dedicated to the Public and sold by Druggists at 18c and 50c per Bottle, Murine Eye Salve in Asspile Tubes. 25c and 50c. Murine Eye Remedy Co., Chicago Labor Question.

Lady of House-You say you work?

At what? Hobo-At intervals. Examine carefully every bottle of

CASTORIA, a safe and sure remedy for infants and children, and see that it Bears the Signature of Cart Hillithing In Use For Over 30 Years.

Children Cry for Fletcher's Castoria Pax Mundl.

Adam bit into the apple. "The first peace dinner," he cried.

Stop the Pain. The hurt of a burn or a cut stops when Cole's Carbolisaive is applied. It heals quickly and prevents scars. 25c and 50c by druggists. For free sample write to J. W. Cole & Co., Black River Falls, Wis.

go from bad to worse than from good to better? Hamlins Wizard Oil is recommended by many physicians. It is used in many pub-lic and private hospitals. Why not keep a bottle on hand in your own home?

Ever notice how much easier it is to

The man who is compelled to to the mark may develop into a chronic

It's easier to secure a patent than it

PILES SATISFACTORILY PRACTICAL HELP FOR POOR

to the same to the same than the same to the same to

Man Undoubtedly Had Great Scheme Althought There Was a Slight Obstacle in the Way.

In the den which opened off the living room the man was roaring soulfully bis own modernized version of

"What would you do with it?" his sister interrupted, less for purposes of information than in pursuit of

"One thing, anyhow, Sis," he broke derfully clean people, all things considered, but you can't go around much work and bathing would be an im-But how would you manage 1:5 Who would be the beneficiaries? How

could you discriminate?" "All that would have to be considered, of course. Now, you work out the details, Sis, and I'll go out and try to scrape up the ten millions."-New

Asking a Good Deal of Her. Mrs. Back-Bay -1 shall want you to be dressed by three o'clock, Ellen, to receive any friends weo may call

Ellen-Oh, for, mum! Ain't you

PILES CURED IN 6 TO 14 DAYS
Tenredruggist will return money if PASSO GINT-MENT falls to cure any case of lighting, Blind, Bleeding or Protrading Plies in the 14 days. Acc. Even if a woman can't afford a new hat she can criticise her neighbor's.

Mrs. Winslow's Soothing Syrup for Children terthing, softens the gums, reduces toflamma-tion, anage pain, cures wind coirc, 25c a bottle. Money makes the mare go; the lack of it makes her go hungry.





. H. Eugers, 125 W. Moth St., Kansen City, W. Peace write to the agent mearest ye

W. N. U., ST. LOUIS, NO. 4-1912

The Fountain Head of Life Is The Stomach A man who has a weak and impaired stomach and who does not

properly digest his food will soon find that his blood has become weak and impoverished, and that his whole body is improperly and Dr. PIERCE'S GOLDEN MEDICAL DISCOVERY

makes the stomach strong, promotes the flow of digestive juices, restores the lost appetite, makes assimilation perfect, invigorates the liver and parifies and enriches the blood. It is the great blood-maker, flesh-builder and restorative nerve tonic. It makes men strong in body, active in mind and cool in judgement.

This "Discovery" is a pure, glyceric extract of American medical roots, absolutely free from alcohol and ail injurious, habit-forming drugs. All its ingredients are printed on its wrappers. It has no relationship with secret nostrums. Its every ingredient is endorsed by the leaders in all the schools of medicine. Don't accept a secret nostrum as a substitute for this time-proven remedy of known composition. Ask your neighbors. They must know of many cures made by it during past 40 years, right in your own neighborhood. World's Dispensary Medical Association. Dr. R.V. Pierce. Pres., Buffalo, N. Y.

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The Kind with the Kill Here, men, is your lucky strike. Robin Hood is the sporting ammunition that will change your field of disappointment into a "happy hunting ground". For "sure enough" game getting you can't shoot a powder that's too quick,-and you can't buy any that will shoot so quick and kill so far as



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is leaded in our own farriers, with our own smokeless powders This is an exclusive Roble. Hond feature, for no other ammuni-tion manufacturers make the smokeless powders which they load Put Robin Hood Ammunition to the test. You'll see the difference in results affeld—high muscle velocity, periect pattern and no "kick."

Buy Robin Hood shot shells and metallic cartridges from your regular dealer, or if he does not handle them write us Send for our catalogue. It is full of ammunition pointers. ROBIN_HOOD AMMUNITION COMPANY 4th Street, Swanton, Vt.

There are those who desire to engage in Christian work at home of abroad, but are prevented by lack of education. causes. They can gratify their desire in part, by TRAINING A SUBSTITUTE



You will like Lewis' Single Binder. A fresh hand-made cigar. Better tobacco, better made and better tasting than most 10c cigars. Many smokers prefer Lewis' Single Binder to 10c cigars.

ou Look Prematurely Old